INTERNATIONAL SEARCH REPORT

Internatio pplication No PCT/IT 03/00234

.=

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D02G1/16 D01H1/115 D02G3/38 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) D02G D01H IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ US 4 100 725 A (MAGEL BERNARD) 1-5, 18 July 1978 (1978-07-18) 10-12, 15,17, 18,21-26 column 4, line 56 -column 6, line 61 χ US 4 497 167 A (MORIHASHI TOSHIFUMI ET 1,3,4, AL) 5 February 1985 (1985-02-05) 11,22,23 the whole document Α X US 5 497 608 A (MATSUMOTO MITSUO ET AL) 1,3,5, 12 March 1996 (1996-03-12) 11,22 the whole document Α US 3 822 543 A (EDAGAWA H ET AL) Α 1,3,4 9 July 1974 (1974-07-09) column 4, line 37-58; figure 4 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 9 December 2003 18/12/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 V Beurden-Hopkins, S

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internation ilication No
PCT/IT 03/00234

- 1 to				
Patent document cited in search report	Publication date		Patent family member(s)	Publication date_
US 4100725 A	18-07-1978	DE FR GB JP NL	2633244 A1 2318956 A1 1558612 A 52015646 A 7608225 A	10-02-1977 18-02-1977 09-01-1980 05-02-1977 27-01-1977
US 4497167 A	05-02-1985	JP JP JP JP JP CH DE	1320069 C 58136839 A 60007048 B 1487855 C 58136840 A 63036372 B 662585 A5 3303686 A1 1197560 B	29-05-1986 15-08-1983 22-02-1985 23-03-1989 15-08-1983 20-07-1988 15-10-1987 18-08-1983 06-12-1988
US 5497608 A	12-03-1996	JP JP JP CA DE DE EP KR	3212626 B2 4272246 A 3137681 B2 5005225 A 2051856 A1 69114691 D1 69114691 T2 0505641 A1 9602922 B1	25-09-2001 29-09-1992 26-02-2001 14-01-1993 23-08-1992 21-12-1995 28-03-1996 30-09-1992 28-02-1996
US 3822543 A	09-07-1974	JP GB IT	55026215 B 1398985 A 959737 B	11-07-1980 25-06-1975 10-11-1973